



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

21 October 2011

Jim Fleer  
Oxford Environmental & Safety, Inc  
14348 Nieman Rd.  
Overland Park, KS 66221

RE: Arkwood Monthly Sampling  
SDG Number: 1110221

Enclosed are the results of analyses for samples received by the laboratory on 19-Oct-11 10:14. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	2.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James". The signature is written in a cursive, flowing style.

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Norma James  
President

21 October 2011

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**14348 Nieman Rd.**  
**Overland Park, KS 66221**  
**Project: Arkwood Monthly Sampling**



**Date Received: 19-Oct-11 10:14**

## **CASE NARRATIVE**

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SAMPLE DELIVERY GROUP 1110221:

### SEMIVOLATILES:

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The six surrogate compounds are: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

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#### ANALYTICAL RESULTS

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Lab Number: 1110221-01  
Sample Name: Mouth  
Date/Time Collected: 10/18/11 11:00  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	52.4		10/19/11 17:19	A110247	8270D
2,4,6-Tribromophenol [surr]	%	79.4		10/19/11 17:19	A110247	8270D
2-Fluorophenol [surr]	%	43.9		10/19/11 17:19	A110247	8270D
Phenol-d5 [surr]	%	28.4		10/19/11 17:19	A110247	8270D

#### ANALYTICAL RESULTS

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Lab Number: 1110221-02  
Sample Name: Weir  
Date/Time Collected: 10/18/11 10:45  
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 5.00		10/19/11 17:41	A110247	8270D
2,4,6-Tribromophenol [surr]	%	55.6		10/19/11 17:41	A110247	8270D
2-Fluorophenol [surr]	%	22.2		10/19/11 17:41	A110247	8270D
Phenol-d5 [surr]	%	13.6		10/19/11 17:41	A110247	8270D

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## QUALITY CONTROL RESULTS

### Semivolatiles - Quality Control Analyzed: 19-Oct-11 15:51 By: KR

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A110247 - 3550B: Modified

##### Blank (A110247-BLK1)

Prepared & Analyzed: 19-Oct-11

Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	33.5		"	40.0		83.7	12.9-137			
Surrogate: 2-Fluorophenol	17.2		"	40.0		43.0	1.8-73.1			
Surrogate: Phenol-d5	11.5		"	40.0		28.7	2.96-62.5			

##### LCS (A110247-BS1)

Prepared & Analyzed: 19-Oct-11

Pentachlorophenol	30.4	10.0	ug/L	40.0		75.9	41.4-117			
Surrogate: 2,4,6-Tribromophenol	33.0		"	40.0		82.5	12.9-137			
Surrogate: 2-Fluorophenol	18.1		"	40.0		45.3	1.8-73.1			
Surrogate: Phenol-d5	15.3		"	40.0		38.3	2.96-62.5			

##### Matrix Spike (A110247-MS1)

Source: 1110221-02

Prepared & Analyzed: 19-Oct-11

Pentachlorophenol	28.4	10.0	ug/L	40.0	ND	71.0	41.1-132			
Surrogate: 2,4,6-Tribromophenol	9.66		"	40.0		24.2	12.9-137			
Surrogate: 2-Fluorophenol	8.91		"	40.0		22.3	1.8-73.1			
Surrogate: Phenol-d5	6.97		"	40.0		17.4	2.96-62.5			

##### Matrix Spike Dup (A110247-MSD1)

Source: 1110221-02

Prepared & Analyzed: 19-Oct-11

Pentachlorophenol	31.1	10.0	ug/L	40.0	ND	77.8	41.1-132	9.16	42.3	
Surrogate: 2,4,6-Tribromophenol	9.83		"	40.0		24.6	12.9-137			
Surrogate: 2-Fluorophenol	9.42		"	40.0		23.6	1.8-73.1			
Surrogate: Phenol-d5	7.15		"	40.0		17.9	2.96-62.5			

All Analysis performed according to EPA approved methodology when available:

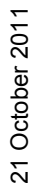
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in blue ink, reading "Norma James", is positioned above the "Reviewed by:" line.

Reviewed by: \_\_\_\_\_

Norma James  
President



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## CHAIN OF CUSTODY FORM(S)



11701 Interstate 30, Bldg. 1, Ste. 115  
Little Rock, AR 72209  
PHONE: 501-455-3233  
FAX: 501-455-6118

## CHAIN OF CUSTODY RECORD

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